PATENT COOPERATION TREATY

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference SK05PCT00006	FOR FURTHER ACTION	See item 4 below	
International application No. PCT/JP2005/002279	International filing date (day/month/year) 15 February 2005 (15.02.2005)	Priority date (day/month/year) 17 March 2004 (17.03.2004)	
International Patent Classification (8th See relevant information in Form F	h edition unless older edition indicated) PCT/ISA/237	•	
Applicant SONY CORPORATION			

		<u> </u>		<u> </u>
1.	This internal	ational preliminary	report on patentability (Chapter ity under Rule 44 bis.1(a).	I) is issued by the International Bureau on behalf of the
2.	This REPO	RT consists of a tot	al of 5 sheets, including this cov	ver sheet.
	In the attact	hed sheets, any refenational preliminary	rence to the written opinion of to report on patentability (Chapte	he International Searching Authority should be read as a reference r I) instead.
3.	This report	contains indication	s relating to the following items	:
	\boxtimes	Box No. I	Basis of the report	
·		Box No. II	Priority	
		Box No. III	Non-establishment of opin applicability	ion with regard to novelty, inventive step and industrial
		Box No. IV	Lack of unity of invention	
	\boxtimes	Box No. V	Reasoned statement under applicability; citations and	Article 35(2) with regard to novelty, inventive step or industrial explanations supporting such statement
		Box No. VI	Certain documents cited	·
		Βοχ Νο. VΠ	Certain defects in the inter	national application
	\boxtimes	Box No. VIII	Certain observations on the	e international application
4.	The Internation not, except date (Rule	where the applican	communicate this report to designt to the sign of the second of the seco	gnated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but expranding the expiration of 30 months from the priority
		- "		
				Date of issuance of this report 29 November 2006 (29.11.2006)
	Т	he International Bu 34, chemin des C 1211 Geneva 20,	olombettes	Authorized officer Masashi Honda
Facsi	mile No. +41	22 338 82 70		e-mail: pt08@wipo.int

Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY		•	NS.
To:	·		PCT PCT
			ITTEN OPINION OF THE ONAL SEARCHING AUTHORITY
	,		(PCT Rule 43bis.1)
		Date of mailing (day/month/year)	
Applicant's or agent's file reference		FOR FURTHER A	ACTION
SK05PCT00006			See paragraph 2 below
International application No. Intern	ational filing date (d	day/month/year)	Priority date (day/month/year)
PCT/JP2005/002279 15	.02.2005		17.03.2004
Applicant SONY CORPORATION			
This opinion contains indications relating to	the following items	:	
Box No. I Basis of the opinio			
Box No. II Priority			
Box No. III Non-establishment	of opinion with reg	gard to novelty, inventi	ive step and industrial applicability
Box No. IV Lack of unity of in	vention	•	
Box No. V Reasoned statement applicability; citati	nt under Rule 43 <i>bis.</i> ons and explanation	1(a)(i) with regard to a ns supporting such stat	novelty, inventive step or industrial ement
Box No. VI Certain documents	cited		·
Box No. VII Certain defects in t	he international app	olication	
Box No. VIII Certain observation	ns on the internation	nal application	•
2. FURTHER ACTION			•
International Preliminary Examining Author	ity ("IPEA") excep n IPEA has notified	t that this does not app the International Bure	Il be considered to be a written opinion of the ply where the applicant chooses an Authority other eau under Rule 66.1 bis(b) that written opinions of
If this opinion is, as provided above, consider	dered to be a writte with amendments,	n opinion of the IPEA before the expiration	A, the applicant is invited to submit to the IPEA a of 3 months from the date of mailing of Form expires later.
For further options, see Form PCT/ISA/220.			
3. For further details, see notes to Form PCT/IS	SA/220.		
Name and mailing address of the ISA/JP		Authorized officer	
Isome and maining address of the 191991.		. initionized officer	
Facsimile No.		Telephone No.	

Вох	No. I	Basis of this opinion
1.		regard to the language, this opinion has been established on the basis of the international application in the language in which it was unless otherwise indicated under this item.
		This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under
	-	Rule 12.3 and 23.1(b)).
2.	With	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed tion, this opinion has been established on the basis of:
	a.	type of material
		a sequence listing
		table(s) related to the sequence listing
	b.	format of material
		in written format
		in computer readable form
	c.	time of filing/furnishing
		contained in the international application as filed.
		filed together with the international application in computer readable form.
	_	furnished subsequently to this Authority for the purposes of search.
3.	П	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or
		furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Add	tional comments:
,		•
	•	

WRITTEN OPINION OF THE

ox No. V Reasoned statem citations and exp					nventive st	ep or inau	 	рисавии	
Statement .						=			•
Novelty (N)	Claims	1-4							YE
	Claims								NC.
Inventive etca (IC)		•							
Inventive step (IS)	Claims	1-4	•						YE
	Claims	<u> </u>							
Industrial applicability (IA)	Claims	1-4							YI
•	Claims								NO
Citations and explanations:									
during retraction, a refl the space, this technique	lection me	mber is ret bed in Fig	racted and and co	rrespond	ing descr	riptions	of doc	ument	2. •
Furthermore, each emb 2 and 4.	oodiment d	escribed in	n document	1 satisfi	es the co	ndition	ai equa	itions o	of clair
Furthermore, each emb	oodiment d	lescribed in	n document	1 satisfi	es the co	ndition	ar equa	ations o	f clain
Furthermore, each emb	oodiment d	escribed in	n document	1 satisfi	es the co	ndition:	ai equa	tions o	of clain
Furthermore, each emb	oodiment d	escribed in	n document	1 satisfi	es the co	ndition:	ai equa	tions c	of clain
Furthermore, each emb	oodiment d	escribed in	n document	1 satisfi	es the co	ndition:	ar equa	tions o	f clain
Furthermore, each emb	oodiment d	escribed in	n document	1 satisfi	es the co	ndition:	ar equa	ations o	f clain
Furthermore, each emb	oodiment d	escribed in	n document	1 satisfi	es the co	ndition:	ai equa	tions o	f clain
Furthermore, each emb	oodiment d	escribed in	n document	1 satisfi	es the co	ndition	ai equa		f clair
Furthermore, each emb	oodiment d	escribed in	n document	1 satisfi	es the co	ndition		tions o	f clain
Furthermore, each emb	oodiment d	escribed in	n document	1 satisfi	es the co	ndition		tions o	f clain
Furthermore, each emb	oodiment d	escribed in	n document	1 satisfi	es the co	ndition	ai equa	ations o	f clain
Furthermore, each emb	oodiment d	escribed in	n document	1 satisfi	es the co	ndition	ai equa	ations o	f clain
Furthermore, each emb	oodiment d	escribed in	n document	1 satisfi	es the co	ndition	ai equa	ations o	er clain
Furthermore, each emb	oodiment d	escribed in	n document	1 satisfi	es the co	ndition	ai equa	ations o	f clain
Furthermore, each emb	podiment d	escribed in	n document	1 satisfi	es the co	ndition	ai equa	ations o	er clain

International application No. PCT/JP2005/002279

Box No. VIII

Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Regarding claims 2 and 4, the conditional equation (1) relating to an aberration correction is described. In zoom lenses generally, the aberration variation relates to a variety of matters such as the number of groups the zoom lens has, the power of each group and the way of moving each group, etc. However, these claims have no description about these matters, and therefore are not considered to be supported by the specification.

10/592,920

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY				ANSI				
To:					PCT PCT			
	· ·				RITTEN OPINION OF THE IONAL SEARCHING AUTHORITY			
			·		(PCT Rule 43bis.1)			
				Date of mailing (day/month/year)				
Applicant's or	agent's file reference			FOR FURTHER	ACTION			
I	T00006		,		See paragraph 2 below			
International a	pplication No.		International filing date (day/month/year)	Priority date (day/month/year)			
	 2005/00227	79	15.02.2005		17.03.2004			
Applicant SONY C	ORPORATION	4	·					
1. This	opinion contains indi	cations rela	ting to the following items	· ·				
⊠	Box No. I	Basis of the	opinion					
	Box No. II	Priority						
	Box No. III	Non-establi:	shment of opinion with reg	gard to novelty, inven	tive step and industrial applicability			
	Box No. IV	Lack of unit	y of invention					
	Box No. V	Reasoned st applicability	atement under Rule 43bis. y; citations and explanation	1(a)(i) with regard to ns supporting such sta	novelty, inventive step or industrial tement			
	Box No. VI	Certain doc	uments cited	•				
	Box No. VII	Certain defe	ects in the international app	plication	•			
⊠	Box No. VIII	Certain obse	ervations on the internation	nal application				
2. FUF	THER ACTION							
Inter than	national Preliminary l this one to be the IPI	Examining EA and the	Authority ("IPEA") except	t that this does not ap the International Bu	ill be considered to be a written opinion of the ply where the applicant chooses an Authority other reau under Rule 66.1bis(b) that written opinions of			
writt PCT	en reply together, w /ISA/220 or before the	here approp e expiration	priate, with amendments, n of 22 months from the pr	before the expiration	A, the applicant is invited to submit to the IPEA and of 3 months from the date of mailing of Form expires later.			
Fort	further options, see Fo	orm PCT/IS	A/220.					
3. For t	further details, see not	tes to Form	PCT/ISA/220.					
				TAME - 1 - CC				
Name and mai	iling address of the IS	AVJP		Authorized officer				
				m				

Box	k No. I	Basis of this opinion
1.		egard to the language, this opinion has been established on the basis of the international application in the language in which it was nless otherwise indicated under this item.
		This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under
	_	Rule 12.3 and 23.1(b)).
2.		egard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed on, this opinion has been established on the basis of:
	a.	ype of material
		a sequence listing
		table(s) related to the sequence listing
	b.	ormat of material .
	-	in written format
		in computer readable form
	c.	ime of filing/furnishing
		contained in the international application as filed.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
		Section 1997 and the state of the section of the se
3.	Ш	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filled or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as
		filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Addi	onal comments:
	_	
		·

Box No. V	Reasoned statemer		le 43bis.1(a)(l) with porting such staten		lty, inventive	step or industrial a	applicability;
1. Statement			omitell				
Novelt	y (N)	Claims	1-4				Y
	•	Claims .		· · ·			1
		•					
Inventi	ive step (IS)	Claims	1 4			· · · · · · · · · · · · · · · · · · ·	
		Claims	1-4				1
Industr	rial applicability (İA)	Claims	1-4	· .			
	. •	Claims					1
. Citations a						•	
	and explanations:					, 2005	/10 11 00\ ^
	ent 1: JP, 2003-3			tical Co., Lt	a.), 19 Nov	ember, 2003	(19.11.03), &
EP, 136	53152, A1, & US	, 2003-02	114726, A1	sical C= T	.a.v. 14 O=:	Johan 2002 (1	6 10 02)
Docum	ent 2: WO, 03-08	85438, Al	(Olympus Op	tical Co., L	ta.), 16 Oc	iober, 2003 (1	0.10.03)
	The out to at an at	tom of al-	ima 1 Ada ===	t onnoce to	nvolva on :	nventive eten	in view of
	The subject mat	ters of cla	ims 1-4 do no	appear to i	nvoive an i	nvenuve step	iii view Ol iona in which
docume	ents 1 and 2 cited	in the IS	K. Although d	ocument I	noes not de	scribe a techn	ique in winch
during	retraction, a refle	ction mer	nber is retracte	ed and the n	egative gro	up in a first gr	oup is placed
the spa	ce, this technique	is descri	bed in Fig. 35	and corresp	onding des	criptions of do	cument 2.
	more, each embo	odiment d	escribed in doo	cument 1 sat	isfies the c	onditional equ	iations of clai
2 and 4	••					•	
							·.
						•	
							•
					•		
						•	
	•		•			-	*
						•	
					•		
		•					
	,						
					•		
						•	

International application No.
PCT/JP2005/002279

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Regarding claims 2 and 4, the conditional equation (1) relating to an aberration correction is described. In zoom lenses generally, the aberration variation relates to a variety of matters such as the number of groups the zoom lens has, the power of each group and the way of moving each group, etc. However, these claims have no description about these matters, and therefore are not considered to be supported by the specification.